



## MISCELLANEOUS DRAINAGE FIELD SECTION 604

### 604.10 Concrete Headwalls, Drop Inlets, And Manholes

**604.11 Scope.** To establish procedures for inspecting and reporting miscellaneous materials for use in concrete headwalls, drop inlets, and manholes. Portland cement concrete and reinforcing steel shall be inspected and reported in accordance with the applicable sections of this Manual and the Construction Manual.

**604.12 Apparatus.** Rule with suitable graduations to accurately measure the material to be inspected.

### 604.13 Procedure.

**604.13.1 General.** The items covered in this section are items for which no direct payment will be made. These items shall be inspected, compared with the Standard Drawings and reported.

**604.13.2 Smooth Roll Roofing.** The labels or invoices shall be checked to insure that the material has been manufactured as 55 pound [25 Kg] smooth roll roofing.

**604.13.3 Aluminum Alloy, Cast Iron, Or Polypropylene Plastic Coated Reinforcing Steel Steps.** Steps for manholes shall be accepted on the basis of a manufacturer's certification and field measurements showing compliance with Specification Sec 604.12.1.

**604.13.4 Steel Step Bars.** These items are to be fabricated from reinforcing steel in compliance with the bending diagrams on drop inlet Standard Drawings and shall be inspected and reported as reinforcing steel in accordance with [Field Sec 1036](#) of this Manual.

**604.13.5 Permeable Granular Backfill.** The material shall be clean, permeable, and granular aggregate and shall be visually inspected to determine that it is suitable for the intended use.

**604.13.6 Drain Tile.** Drain tile shall be inspected in accordance with [Field Sec 1026](#) of this Manual for concrete drain tile or [Field Sec 1031](#) of this Manual for clay drain tile.

**604.13.7 Screen.** The screen for inlet weep holes shall be visually inspected to ascertain that the nominal dimensions and wire gage shown on drop inlet Standard Drawings are met and to insure the item is suitable for the intended use.

**604.14 Report.** Permeable granular backfill material shall be reported on Form T-602 in accordance with [Automation Sec AS-3120](#) of this Manual. Under the remarks section the statement "Visual Inspection" shall be shown. Miscellaneous materials shall be reported on Form T-634 in accordance with [Automation Sec AS-3530](#) of this Manual. The report is to indicate acceptance, qualified acceptance, or rejection. Appropriate remarks, as described in [General Sec 7.1.2](#) of this Manual, are to be included in the report to clarify conditions of acceptance or rejection.



## **604.20 Adjusting Drainage Facilities**

The Materials Division does not normally perform field inspection on this item, however, manhole adjusting rings when required in the contract shall be inspected in accordance with [Field Sec 614.30](#) of this Manual.

## **604.40 Pipe Collars**

**604.41 Scope.** To establish procedures for inspecting and reporting precast pipe collars. The Materials does not normally inspect this item if it is field fabricated on the project, however, pieces of pipe to be joined and materials used to form the collar shall be inspected and reported in accordance with the applicable sections of this Manual.

**604.42 Procedure.** If a portion of the collar is manufactured to be used as a section of pipe, the actual collar must meet the requirement for the pipe. The collar shall be constructed in accordance with the details shown in Standard Drawing 604.40 and Specification Sec 604.40. The inspector shall insure that the finished pipe collar will provide a joint connection to fit the pipe.

**604.43 Report.** Precast pipe collars shall be reported on Form T-634 in accordance with Automation Sec AS-3530 of this Manual. The report is to indicate acceptance, qualified acceptance, or rejection. Appropriate remarks, as described in [General Sec 7.1.2](#) of this Manual, are to be included in the report to clarify conditions of acceptance or rejection.

## **604.50 Connecting Pipe To Existing Structures**

The Materials Division does not normally perform field inspection on these items.

